

## AQ0043 DEQ Water Quality/Habitat Reviews of Project Area Streams

[https://mapcase.deq.idaho.gov/wq2014/scripts/adb2014.aspx?WBIDSEGID=ID17060210SL001\\_03](https://mapcase.deq.idaho.gov/wq2014/scripts/adb2014.aspx?WBIDSEGID=ID17060210SL001_03)



Idaho Department of Environmental Quality GIS



**SUBBASIN**  
**17060210 - Little Salmon**

### Final Assessment Unit Status Report 2014

**Assessment Unit ID:** ID17060210SL001\_03

**Assessment Unit Name:** Squaw Creek - 3rd order

**Assessment Unit Type:** RIVER

**Assessment Unit Size:** 5.61 MILES

**Assessment Date:** 05/22/2007

**This Assessment Unit is in Category: 2**

Assessed Beneficial Use	Assessed Date	User Flag	Support Status	Category
Cold Water Aquatic Life	05-22-2007	DESIGNATED	Fully Supporting	2
Primary Contact Recreation	10-26-2006	DESIGNATED	Fully Supporting	2
Salmonid Spawning	05-22-2007	DESIGNATED	Fully Supporting	2
Wildlife Habitat	10-26-2006	PRESUMED	Fully Supporting	2

### Monitoring Methods

BIOLOGICAL MONITORING

HABITAT ASSESSMENT

Idaho WBAG II (January 2002) using BURP data

### Beneficial Use Comments

#### Cold Water Aquatic Life

{\rtf1\ansi\deflang1033\fonttbl{\f0\swiss MS Sans Serif;}{\f1\roman\charset2 Symbol;}} {\colortbl\red0\green0\blue0;} \deflang1033\pard\plain\f0\fs17 2003 BURP data indicate ALUS = fully supporting. \par }

#### Primary Contact Recreation

{\rtf1\ansi\deflang1033\fonttbl{\f0\swiss MS Sans Serif;}{\f1\roman\charset2 Symbol;}} {\colortbl\red0\green0\blue0;} \deflang1033\pard\plain\f0\fs17 Based on GIS analysis, as per WBAG II, Section 7.3, recreation uses appear to be fully supporting. \par }

#### Salmonid Spawning

{\rtf1\ansi\deflang1033\fonttbl{\f0\swiss MS Sans Serif;}{\f1\roman\charset2 Symbol;}} {\colortbl\red0\green0\blue0;} \deflang1033\pard\plain\f0\fs17 Because ALUS = fully supporting, but numeric criteria are not available, the assumption is made, as per WBAG II, Section 6.5, that salmonid spawning is fully supporting. \par }

#### Wildlife Habitat

{\rtf1\ansi\deflang1033\fonttbl{\f0\swiss MS Sans Serif;}{\f1\roman\charset2 Symbol;}} {\colortbl\red0\green0\blue0;} \deflang1033\pard\plain\f0\fs17 Per WBAG II, Section 9, "Unless there is evidence to the contrary, DEQ presumes support use of wildlife habitat and aesthetics are fully supporting." \par }

### Monitoring History (1993 - Present)

BURPID	STREAM	ELEV(ft)	LATITUDE	LONGITUDE	SMIScore	SFIScore	SHIScore	AVGScore
<a href="#">2005SBOLA006</a>	Squaw Creek	3412	45.42229	-116.40482	3	3	3	3.00
<a href="#">2005SBOLA006</a>	Squaw Creek	3232	45.42317	-116.39491	3	3	3	3.00
<a href="#">1997SLEWA005</a>	Squaw Creek	3445	45.42205	-116.40609	2	1	3	2.00

**Final Assessment Unit Status Report 2014**

**Assessment Unit ID:** ID17060210SL001\_02a

**Assessment Unit Name:** Indian Creek - entire drainage

**Assessment Unit Type:** RIVER

**Assessment Unit Size:** 2.46 MILES

**Assessment Date:** 06/28/2006

**This Assessment Unit is in Category: 2**

<u>Assessed Beneficial Use</u>	<u>Assessed Date</u>	<u>User Flag</u>	<u>Support Status</u>	<u>Category</u>
Cold Water Aquatic Life	06-28-2006	DESIGNATED	Fully Supporting	2
Salmonid Spawning	06-28-2006	DESIGNATED	Fully Supporting	2
Secondary Contact Recreation	06-28-2006	PRESUMED	Fully Supporting	2

**Monitoring Methods**

Visual observation, use of land use maps, ref. conditions, prof. not required

**Beneficial Use Comments**

**Cold Water Aquatic Life**

Assessment June 2006, Idaho WBAGII using BURP Monitoring Data. Average score was 2.5, exceeding the 2.0 threshold. I.e. bugs and habitat data show the creek fully supports beneficial uses.

**Salmonid Spawning**

Assessment June 2006, Idaho WBAGII using BURP Monitoring Data. Because ALUS = fully supporting, but numeric criteria are not available, the assumption is made, as per WBAG II, Section 6.5, that salmonid spawning is fully supporting.

**Secondary Contact Recreation**

Idaho WBAGII using BURP Monitoring Data (JULY 2006). Based on GIS analysis, as per WBAG II, Section 7.3, recreation uses appear to be fully supporting.

**Monitoring History (1993 - Present)**

<u>BURPID</u>	<u>STREAM</u>	<u>ELEV(ft)</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>SMIScore</u>	<u>SFIScore</u>	<u>SHIScore</u>	<u>AVGScore</u>
<a href="#">003SBOIA004</a>	Indian Creek	2700	45.28091	-116.35296	3		2	2.50
<a href="#">927SLEWA001</a>	Indian Creek	2812	45.27966	-116.35647	1		1	1.00



SUBBASIN  
17060210 - Little Salmon

Final Assessment Unit Status Report 2014

Assessment Unit ID: ID17060210SL001\_02

Assessment Unit Name: Little Salmon River - 1st and 2nd order below Round Valley

Assessment Unit Type: RIVER

Assessment Unit Size: 98.54 MILES

Assessment Date: 12/03/2009

This Assessment Unit is in Category: 2

Assessed Beneficial Use	Assessed Date	User Flag	Support Status	Category
Cold Water Aquatic Life	12-03-2009	DESIGNATED	Fully Supporting	2
Secondary Contact Recreation	12-03-2009	PRESUMED	Fully Supporting	2

**Monitoring Methods**

Idaho WBAGII (January 2002) using BURP data

**Beneficial Use Comments**

**Cold Water Aquatic Life**

ID17060210SL001\_02. No BURP information exists. Data exists to indicate spawning and rearing of salmonid species in this AU. However, since the data is not current, DEQ will put this assessment unit back in category 5 for sediment and conduct BURP inventory (s) of representative stream(s) in this AU to determine beneficial use support. 12/03/09 Assessment of 2007 BURP data indicate that this stream is fully meeting its CWAL beneficial uses.

**Secondary Contact Recreation**

Bacteria sample taken at 2007 BURP Site. 5.2 MPN/100ml. HS

**Monitoring History (1993 - Present)**

BURPID	STREAM	ELEV(ft)	LATITUDE	LONGITUDE	SMIScore	SFIScore	SHIScore	AVGScore
<a href="#">2008SLEW4029</a>	Rattlesnake Creek	2766	45.26794	-116.33800	3	3	3	3.00
<a href="#">2007SBO1A034</a>	North Fork Squaw Creek	3898	45.41824	-116.42431	3	1	3	2.33





**Final Assessment Unit Status Report 2014**

Assessment Unit ID: ID17060210SL002\_03a

Assessment Unit Name: Shingle Creek - 3rd order (South Fork to mouth)

Assessment Unit Type: RIVER

Assessment Unit Size: 0.91 MILES

Assessment Date: 06/11/2002

**This Assessment Unit is in Category: 2**

<u>Assessed Beneficial Use</u>	<u>Assessed Date</u>	<u>User Flag</u>	<u>Support Status</u>	<u>Category</u>
Cold Water Aquatic Life	06-11-2002	DESIGNATED	Fully Supporting	2
Salmonid Spawning	06-11-2002	DESIGNATED	Fully Supporting	2

**Monitoring Methods**

BIOLOGICAL MONITORING  
HABITAT ASSESSMENT  
Idaho WBAGII (January 2002) using BURP data

**Beneficial Use Comments**

None Listed

**Monitoring History (1993 - Present)**

<u>BURPID</u>	<u>STREAM</u>	<u>ELEV(ft)</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>SMIScore</u>	<u>SFIScore</u>	<u>SHIScore</u>	<u>AVGScore</u>
1997SLEWA024	Shingle Creek	2484	45.36155	-116.39996	3	2	3	2.67

The stream is often dewatered in the lower segment, and the upper reaches are perennial with marshy areas at the top. The middle section is intermittent, with the water sinking and reemerging from underground limestone caves. Springs on the northern side of the drainage are hydrologically linked to the adjacent Papoose Creek watershed through a system of caverns and faults.

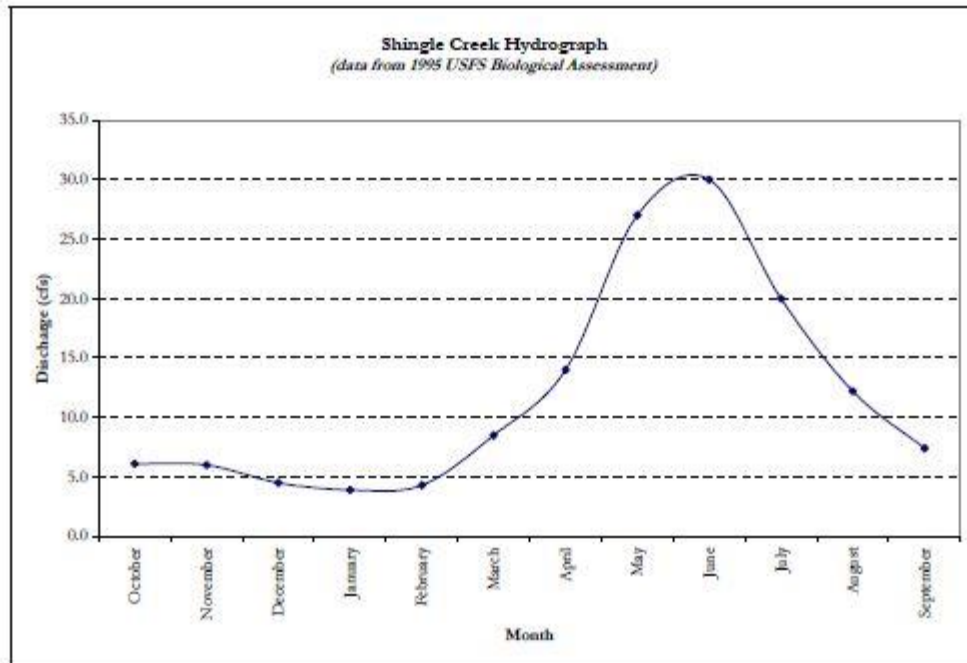


Figure 71. Shingle Creek Average Monthly Flow at Mouth (USFS).

### Fisheries

The Idaho Department of Fish and Game has not stocked Shingle Creek or its tributaries since at least 1967. Electrofishing information collected by BURP survey crews revealed a rainbow trout and cutthroat trout fishery. The BURP data showed greater than three age classes of fish, including young of the year, which is indicative of a healthy fishery. Designated critical habitat for spring/summer Chinook salmon extends upstream about 1.3 miles from the mouth on the main stem and about 200 feet upstream on the South Fork. Most of this critical habitat is located on private lands. Shingle Creek supports steelhead spawning and rearing in the lower miles.

Between the years 1985-1993, four fish surveys were conducted due to the proposed installation of a hydro power project. Bull trout, rainbow trout, cutthroat trout and sculpin were reported at that time; however successive surveys have not shown the presence of bull trout. It is possible the stream is used for bull trout juvenile rearing.

Table 24. Little Salmon River subbasin stream inventory data.

Year	Stream Name	Assessment Unit	SMI	SHI	SFI	Score	Beneficial Use Support
2008	Rapid River	17060210SL002_03	3	1	ND	2.00	FS
2008	West Fork Rapid River (lower)	17060210SL003_02	2	3	ND	2.50	FS
2008	West Fork Rapid River (upper)	17060210SL003_03	3	3	ND	3.00	FS
2008	Bridge Creek	17060210SL003_03	3	3	ND	3.00	FS
2008	Round Valley Creek	17060210SL006_03	3	1	ND	2.00	FS
2008	Mud Creek	17060210SL008_02	3	2	ND	2.50	FS
2008	Big Creek	17060210SL009_02a	1	1	ND	1.00	NFS
2008	Hard Creek	17060210SL015_03	3	3	ND	3.00	FS
2008	Rattlesnake Creek	17060210SL001_02	3	3	3	3.00	FS
2007	Hazard Creek	17060210SL014_04	3	3	ND	3.00	FS
2007	Fourmile Creek	17060210SL007_02	ND	ND	ND	ND	Dry
2007	Shingle Creek	17060210SL002_02a	3	3	0	2.00	FS
2007	North Fork Squaw Creek	17060210SL001_02	3	3	2	2.67	FS
2007	Elk Creek	17060210SL016_03	3	3	2	2.67	FS
2007	Little Elk Creek	17060210SL016_02	3	3	3	3.00	FS
2006	Goose Creek above Brundage Reservoir	17060210SL011_02	3	3	3	3.00	FS
2006	Goose Creek	17060210SL012_02	3	3	0	2.00	FS
2006	Hazard Creek	17060210SL014_02	3	3	1	2.30	FS
2006	Corral Creek	17060210SL015_02	3	3	1	2.30	FS
2005	Squaw Creek	17060210SL001_03	3	3	3	3.00	FS
2005	Mud Creek	17060210SL008_03	1	1	ND	1.00	NFS

Notes: Stream macroinvertebrate index (SMI); stream habitat index (SHI); stream fish index (SFI); not determined (ND); full support (FS); not full support (NFS).

### 3.5.1 Beneficial Uses

Overall, conditions in the subbasin remain static or are improving.

Table 25 summarizes the recommended changes for the AU's listed in Category 5 of the 2010 Integrated Report (§303(d) list). East Branch Goose Creek (17060210SL010\_04) and West Branch Goose Creek (17060210SL007\_04a) are recommended for listing for flow alteration. Flow alteration is not a pollutant, but it does contribute to beneficial use impairment in the lowermost reaches. East Branch Goose Creek is recommended for bacteria TMDL development.

The Little Salmon River nutrient concentrations at the compliance monitoring point in the Circle C subdivision remain above the TMDL target concentration. Thus, no changes are recommended at this time to the 2012 Integrated Report for the Little Salmon River, meaning the TMDL remains in place.

